This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1	1. (Previously Amended) A method of manufacturing a trench field effect		
2	transistor on a substrate having a first conductivity type, the method comprising the steps of:		
3	forming a first trench extending into the substrate;		
4	lining the first trench with dielectric material;		
5	substantially filling the first trench with conductive material to form a gate		
6	electrode of the field effect transistor;		
7	forming a body region having a second conductivity type in the substrate;		
8	after substantially filling the first trench with conductive material, forming a		
9	source region having the first conductivity type inside the body region and adjacent to the first		
10	trench;		
11	forming a second trench adjacent to said source region, the second trench defined		
12	by sidewalls extending into the body region and a bottom, which terminates below the source		
13	region and in contact with the body region; and		
14	filling the second trench with high conductivity material for making contact to the		
15	body region.		
1	2. (Original) The method of claim 1 wherein the step of filling the second		
2	trench with high conductivity material for making contact to the body region also makes contact		
3	to the source region.		
1	3. (Original) The method of claim 2 wherein the step of filling the second		
2	trench with high conductivity material comprises a self-aligned masking step for making contact		
3	with both the body region and the source region.		
1	4-5. (Previously canceled)		

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1	6.	(Original) The method of claim 2 further comprising a step of forming a	
2	thin layer of barrier metal between the high conductivity material and the body region.		
1	7.	(Original) The method of claim 6 wherein the high conductivity material	
2	comprises alumin	um and the thin layer of barrier metal comprises titanium.	
1	8.	(Original) The method of claim 2 wherein the step of forming the second	
2	trench comprises a	a step of etching silicon through the source and body regions.	
1	9-1	1. (Previously Canceled)	
1	12.	(Original) The method of claim 8 wherein the step of etching etches the	
2	silicon at an angle resulting in a slanted edge along the etched side of the source region.		
1	13.	(Previously Amended) A process for manufacturing a trench field effect	
2	transistor comprising the steps of:		
3	etcl	ning a first trench in a substrate having a first conductivity type;	
4	lini	ng the first trench with a layer of dielectric material;	
5	sub	stantially filling the first trench with polysilicon;	
6	imp	planting impurities of a second conductivity type into the substrate to form a	
7	body region having the second conductivity type over the substrate;		
8	afte	r substantially filling the first trench with polysilicon, implanting impurities of	
9	the first conductivity type inside the body region to form a source region adjacent to the first		
10	trench;		
11	etch	ing a second trench through the source region and into the body region, the	
12	second trench defined by sidewalls and a bottom, which terminates in contact with the body		
13	region; and		
14	filli	ng the second trench with metal making contact with both the source region	
15	and the body region.		

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1	14. (Original) The process of claim 13 further comprising a step of implanting
2	impurities of the second conductivity type into the body region under the second trench before
3	the step of filling the second trench with metal.
1	15. (Original) The process of claim 13 wherein the step of etching the second
2	trench etches the second trench to a shallower depth than the first trench.
1	16-17. (Previously Canceled)
1	18. (Previously Added) The method of claim 1, wherein the first trench is
2	substantially completely filled with conductive material.
1	19. (Previously Added) The method of claim 1, wherein after filling the first
2	trench with conductive material, the conductive material does not extend over a substantial
3	portion of the substrate surface peripheral to the first trench.
1	20. (Previously Added) The method of claim 13, wherein the first trench is
2	substantially completely filled with polysilicon.
l	21. (Previously Added) The method of claim 13, wherein after filling the first
2	trench with polysilicon, the polysilicon does not extend over a substantial portion of the substrate
3	surface peripheral to the first trench.